

08-624,504

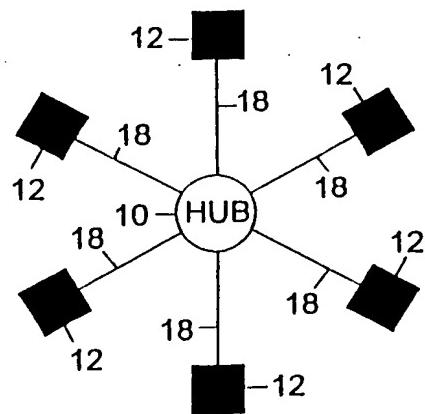


Fig. 1
Prior Art

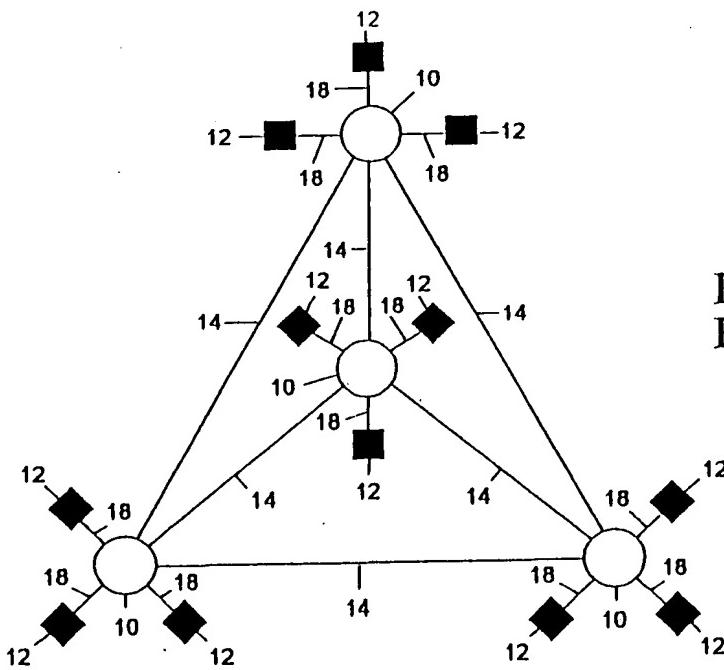


Fig. 2
Prior Art

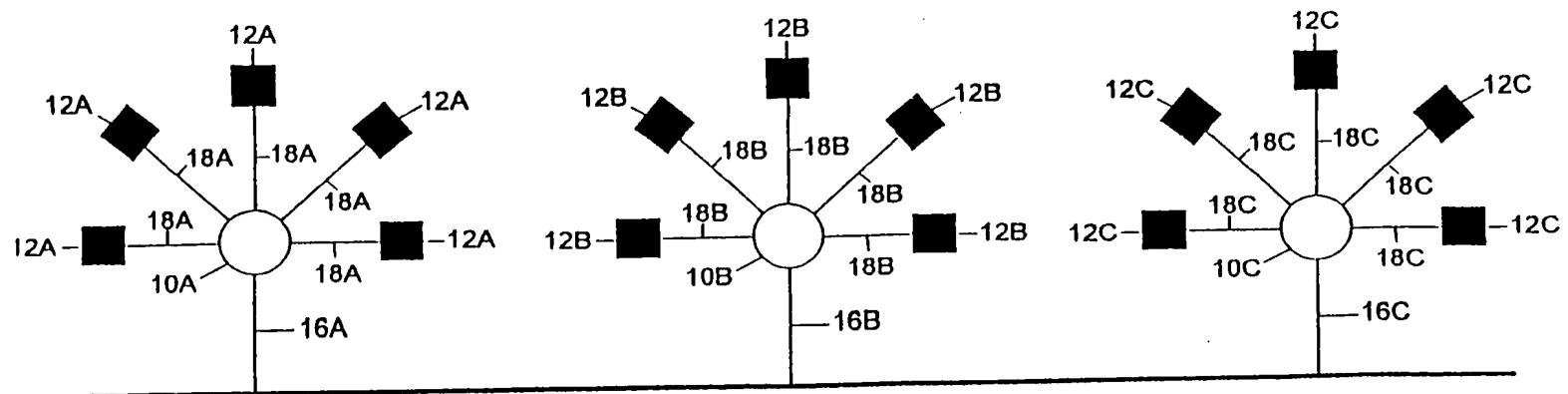


Fig. 3
Prior Art

08-624584

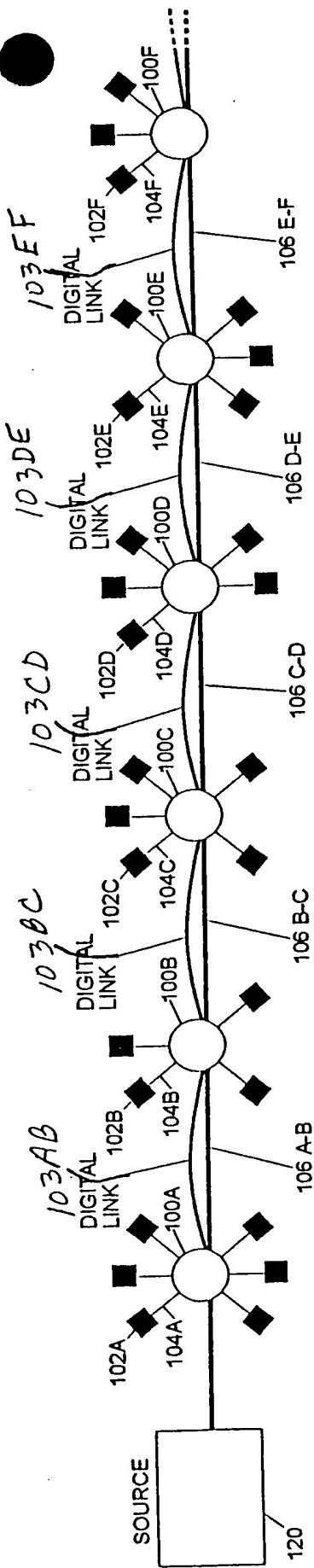
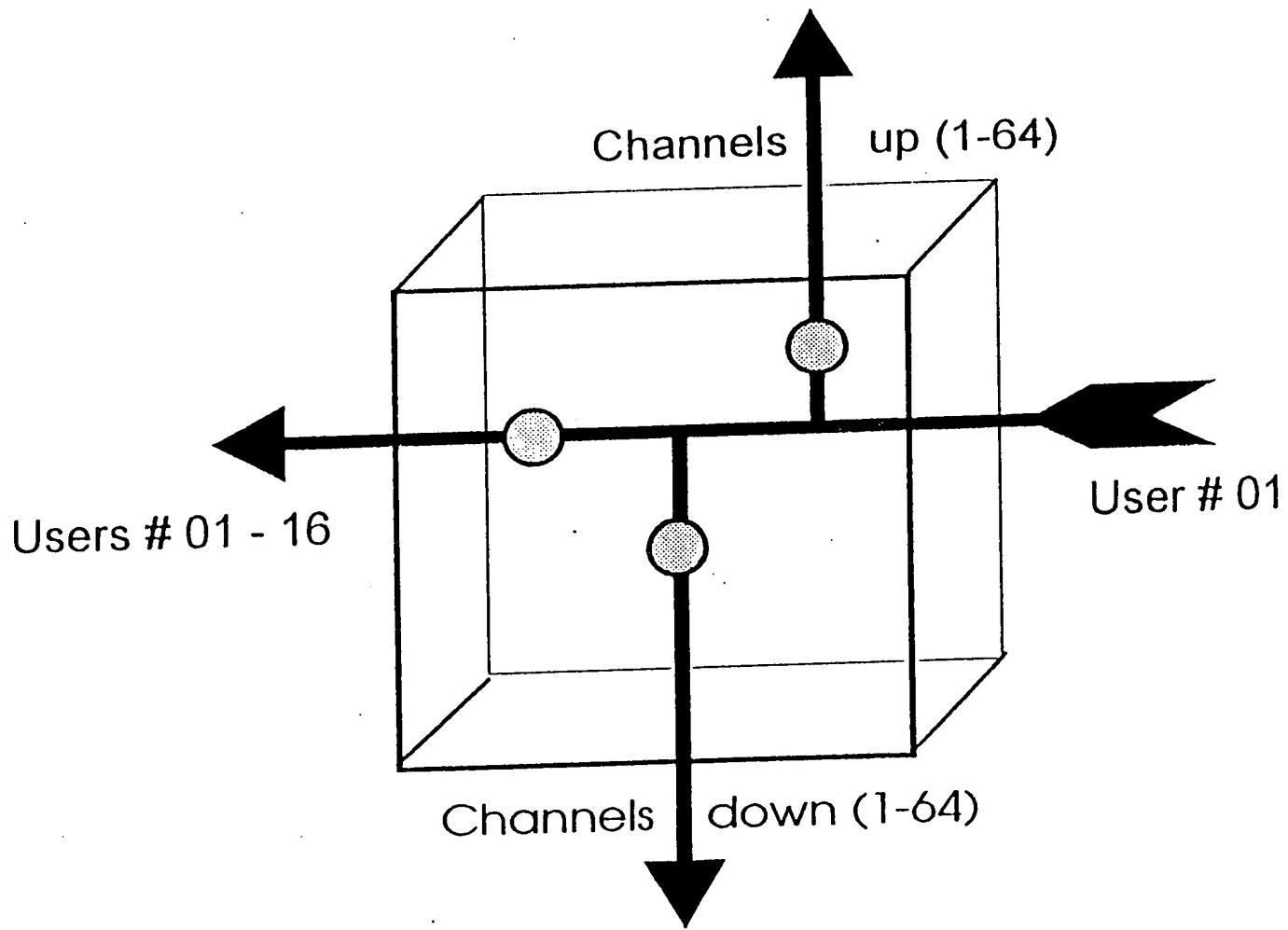


Fig. 4

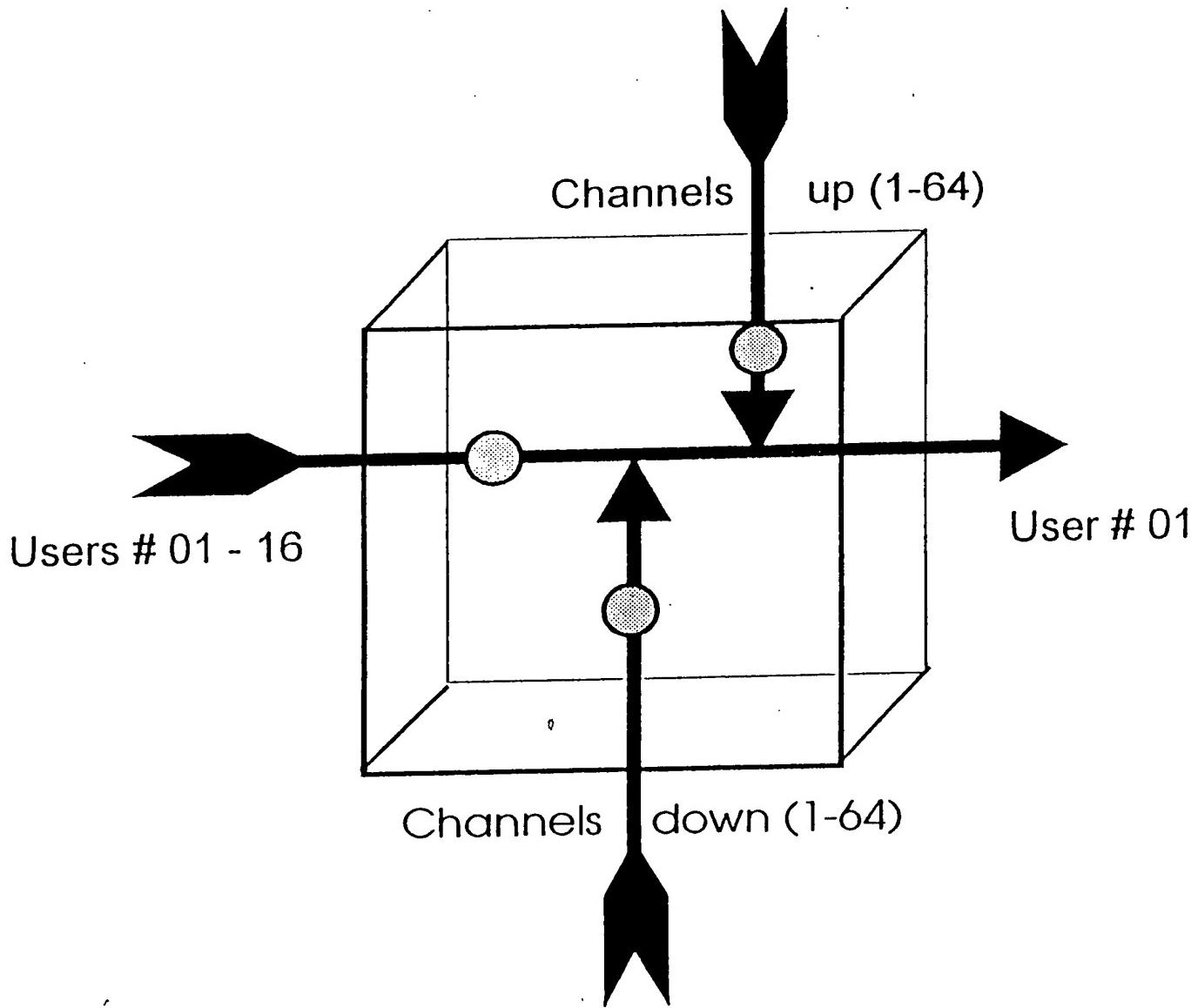
Principle of Channel Segmentation (Transmit mode - Tx)



- Digitally controlled analog switch (on/off)
Signal path may be interrupted to limit distribution over network at 3 points per crosspoint switch (up, down, across)

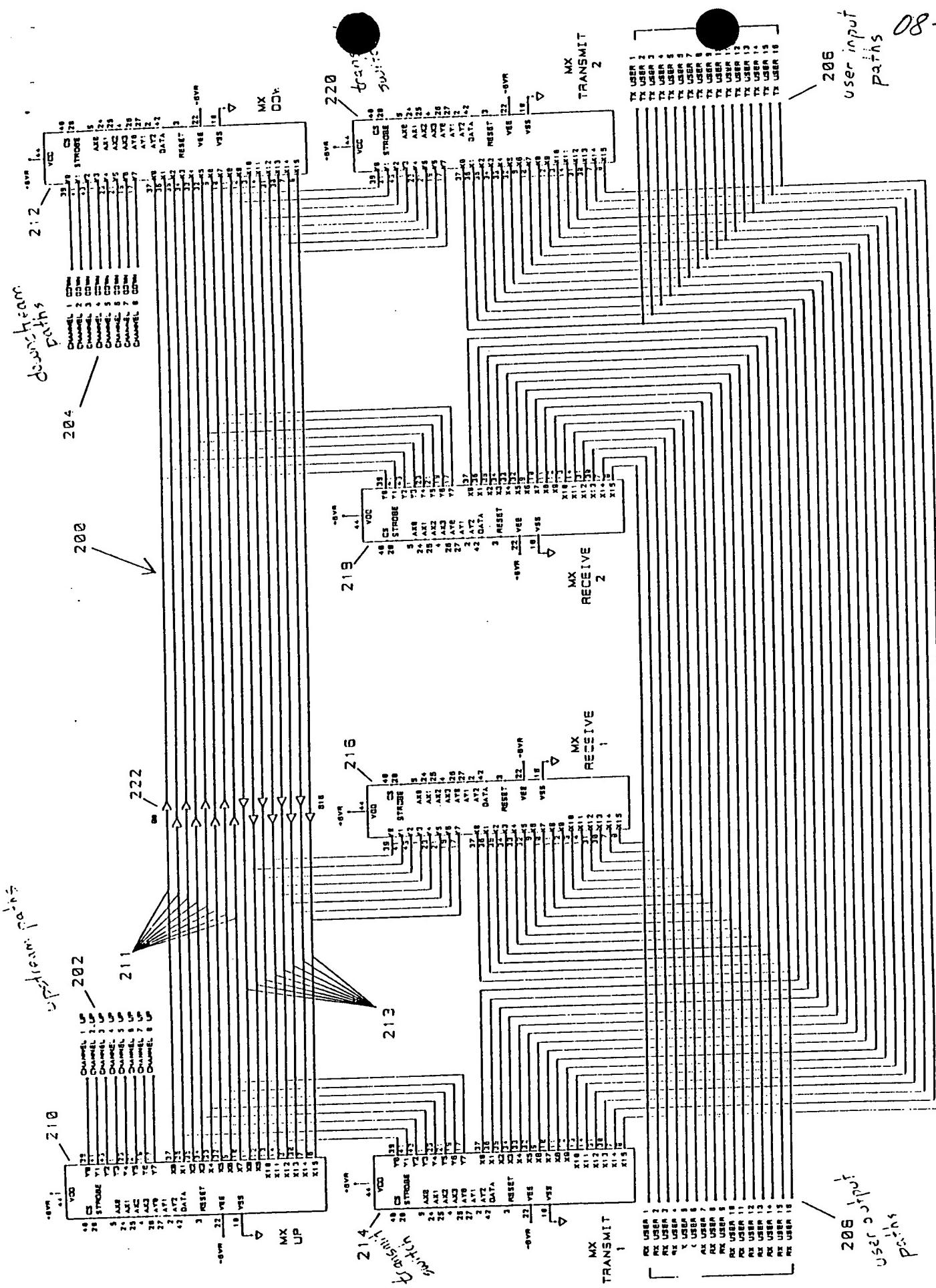
Fig. 5

Principle of Channel Segmentation (Receive mode - Rx)



- ➊ Digitally controlled analog switch (on/off)
Signal path may be interrupted to limit distribution over network at 3 points per crosspoint switch (up, down, across)

Fig. 6



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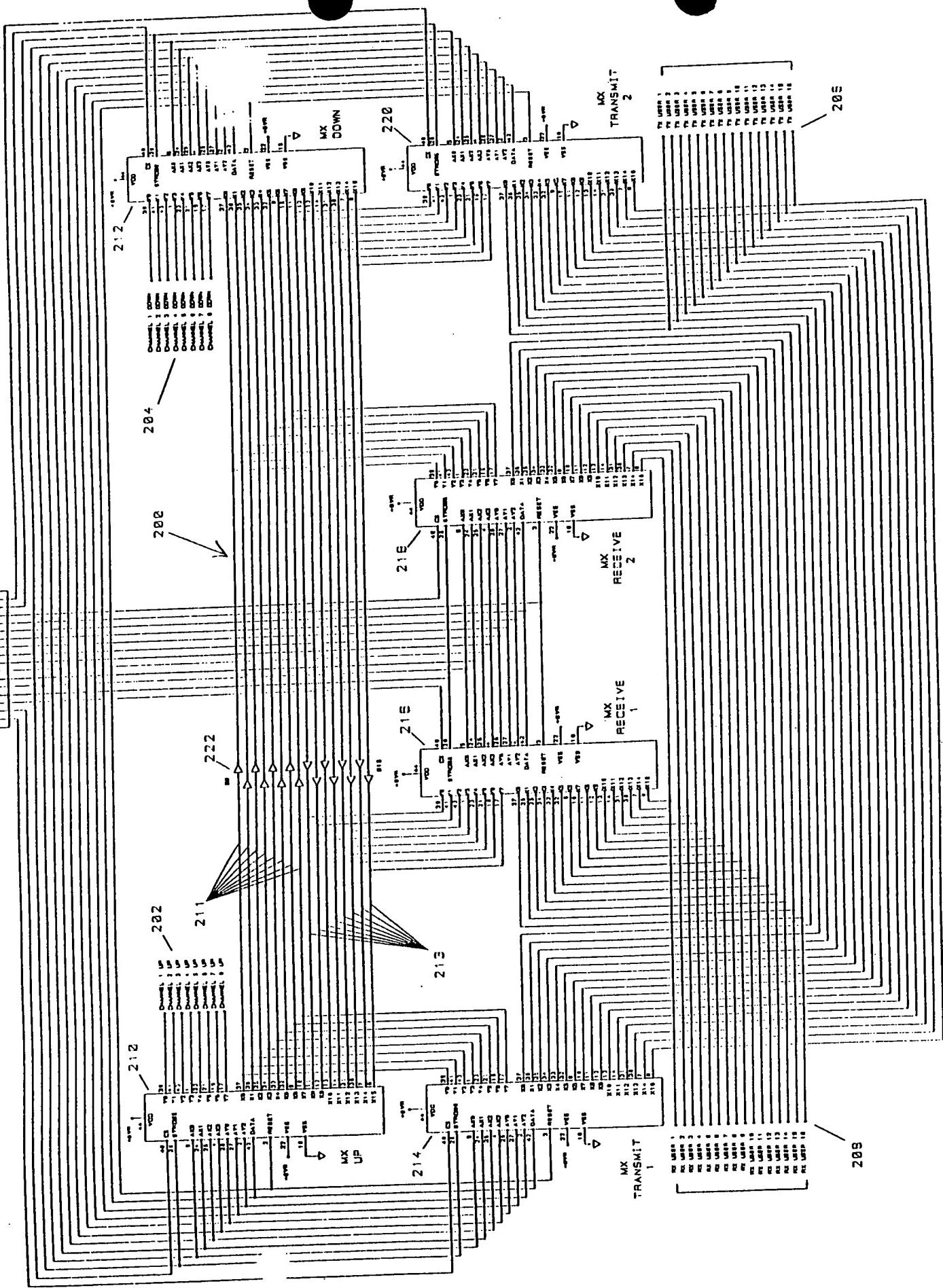


FIG. 7A

08-624, 864

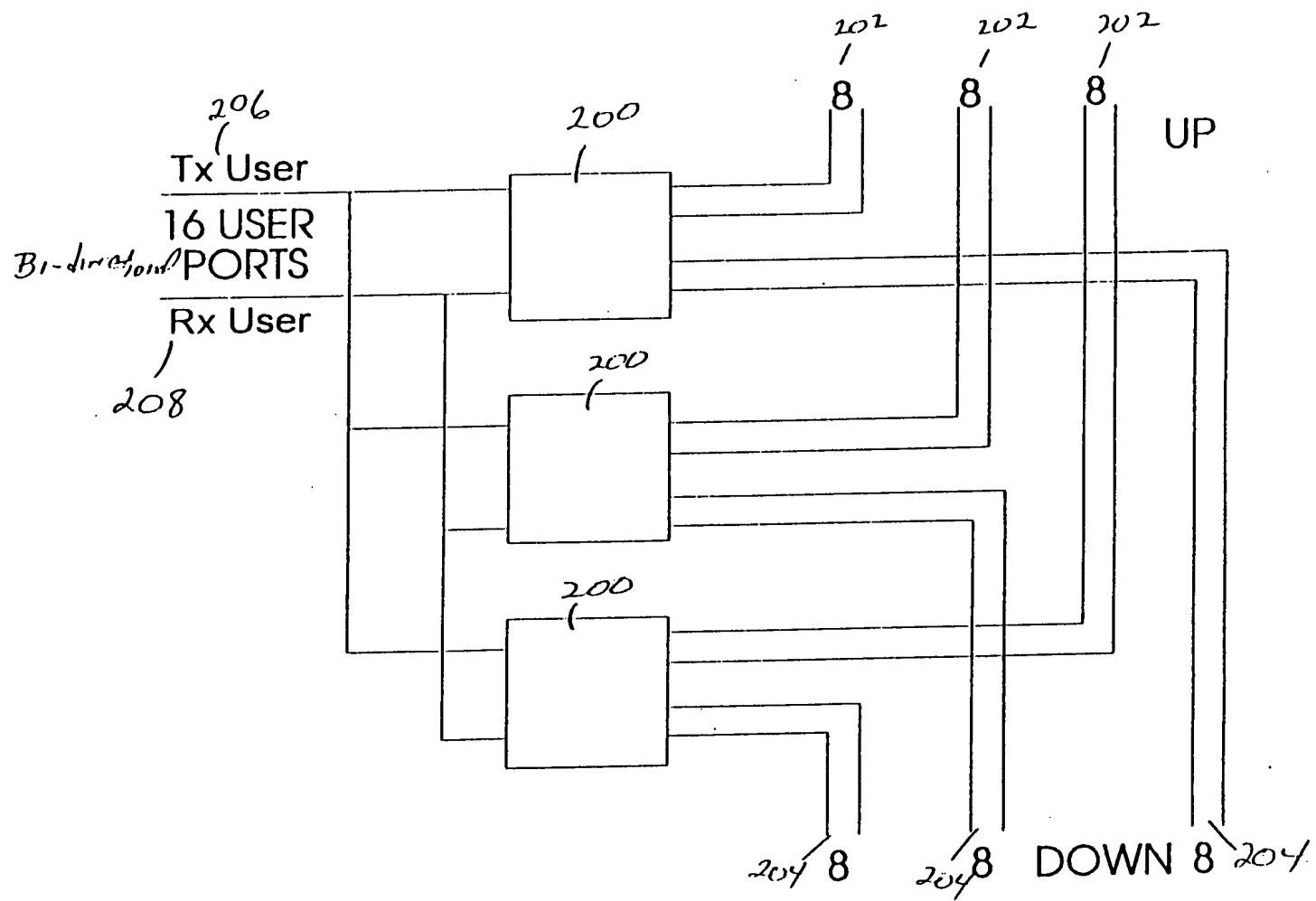
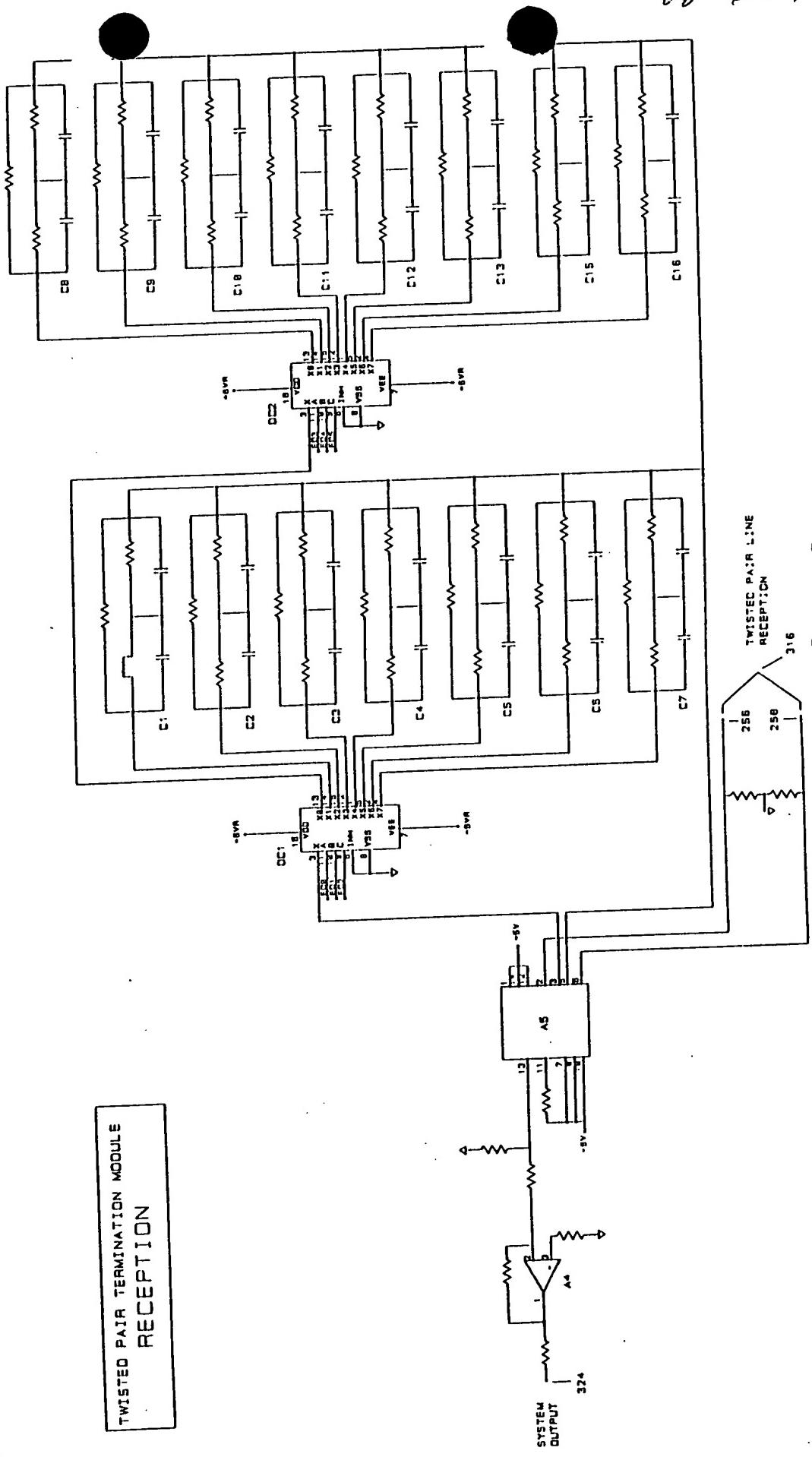
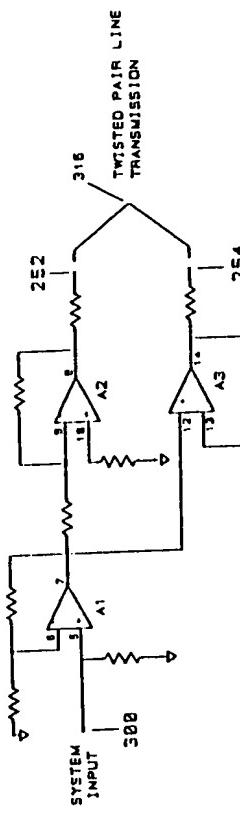


Fig. 8

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Twisted Pair Termination Module

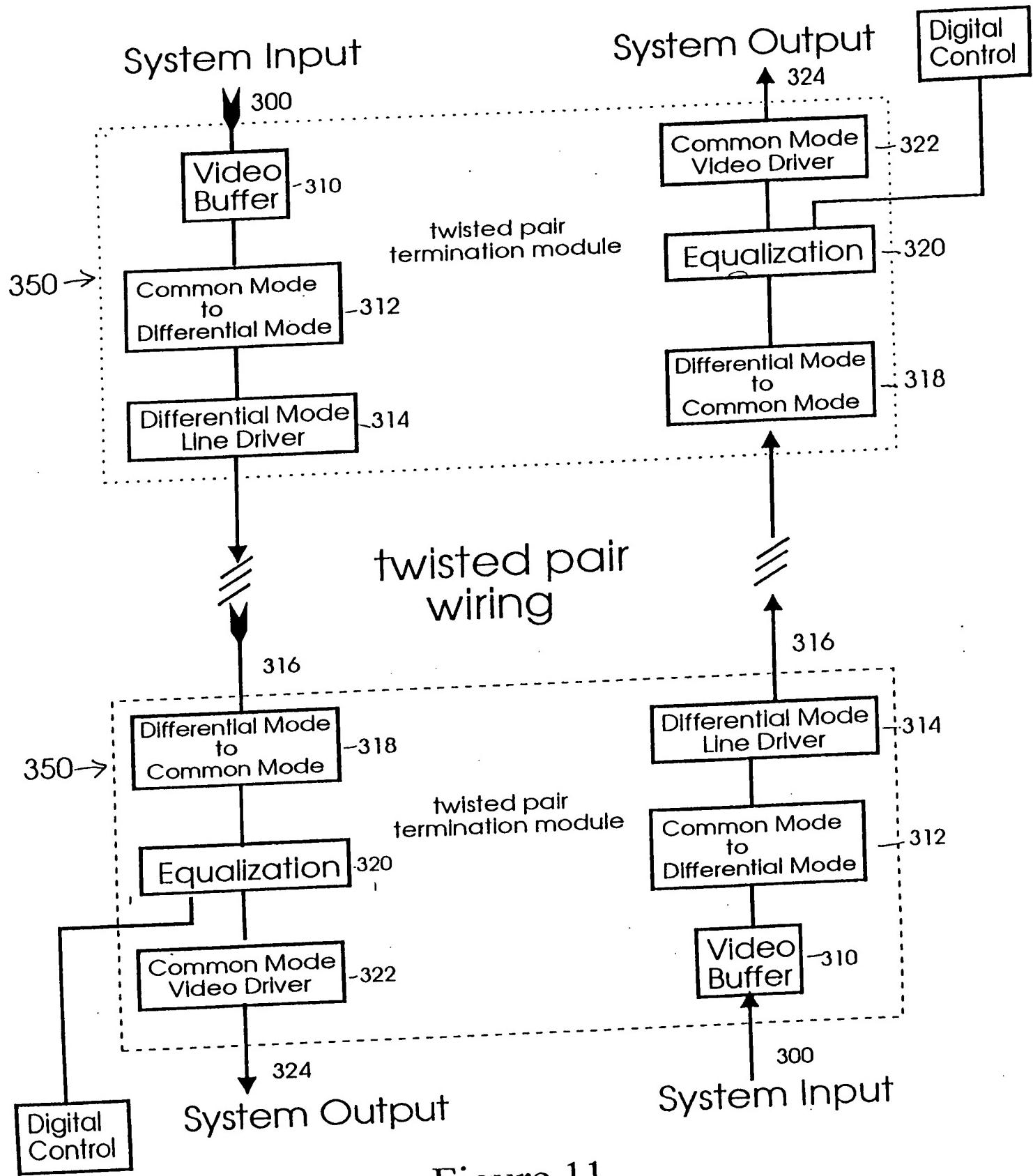


Figure 11

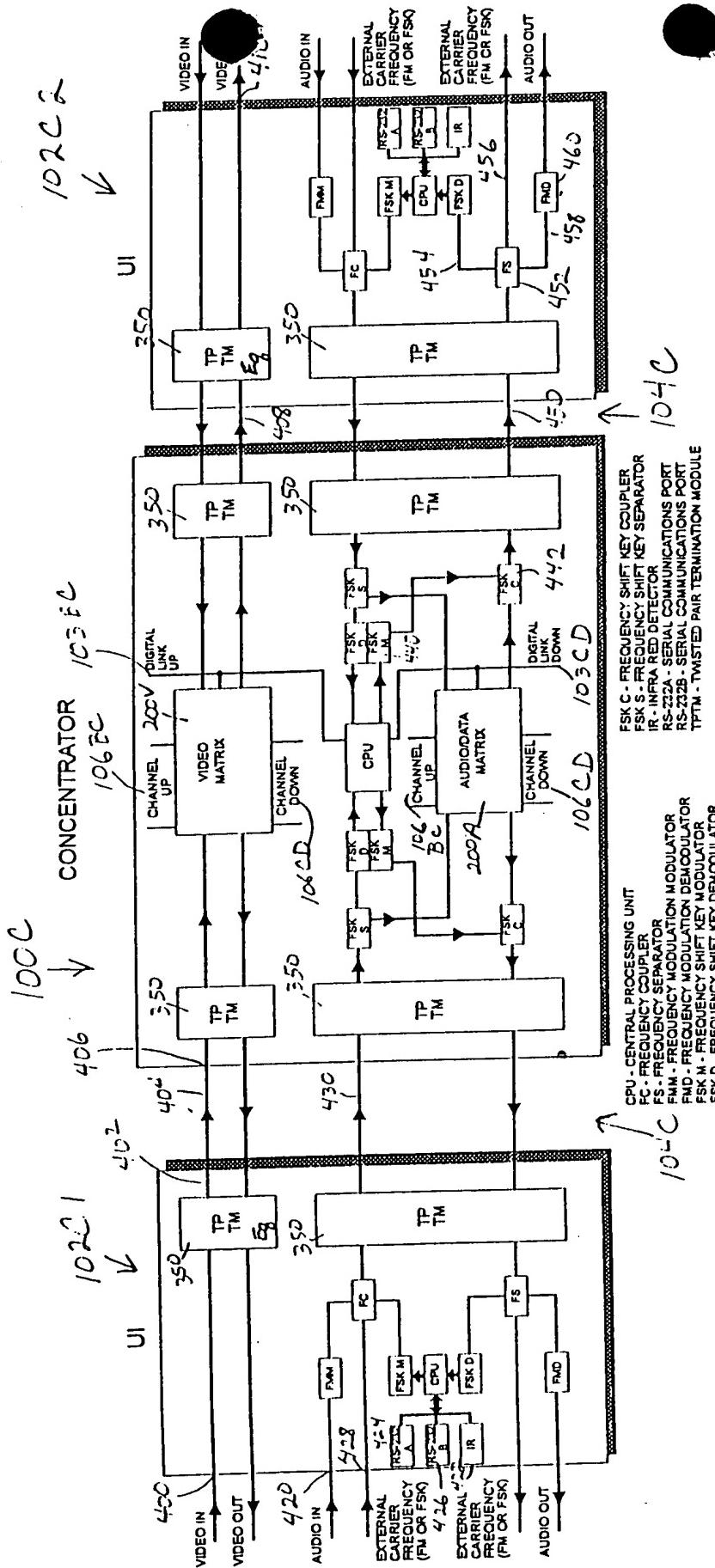


Fig. 12

FSK C - FREQUENCY SHIFT KEY COUPLER
 FSK S - FREQUENCY SHIFT KEY SEPARATOR
 IR - INFRA RED DETECTOR
 RS-232A - SERIAL COMMUNICATIONS PORT
 RS-232B - SERIAL COMMUNICATIONS PORT
 TFTM - TWISTED PAIR TERMINATION MODULE

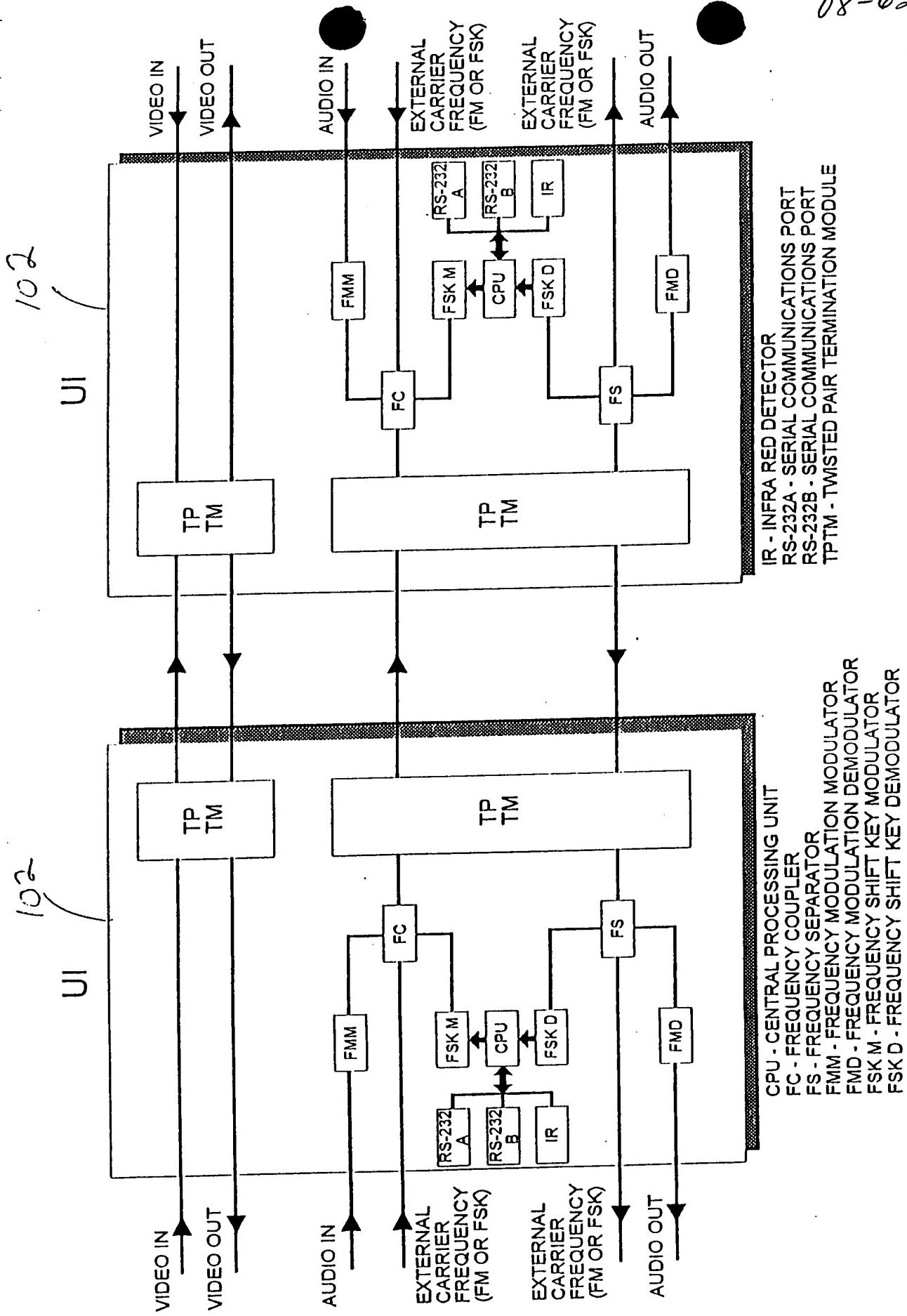


Fig 13

08-624, S64

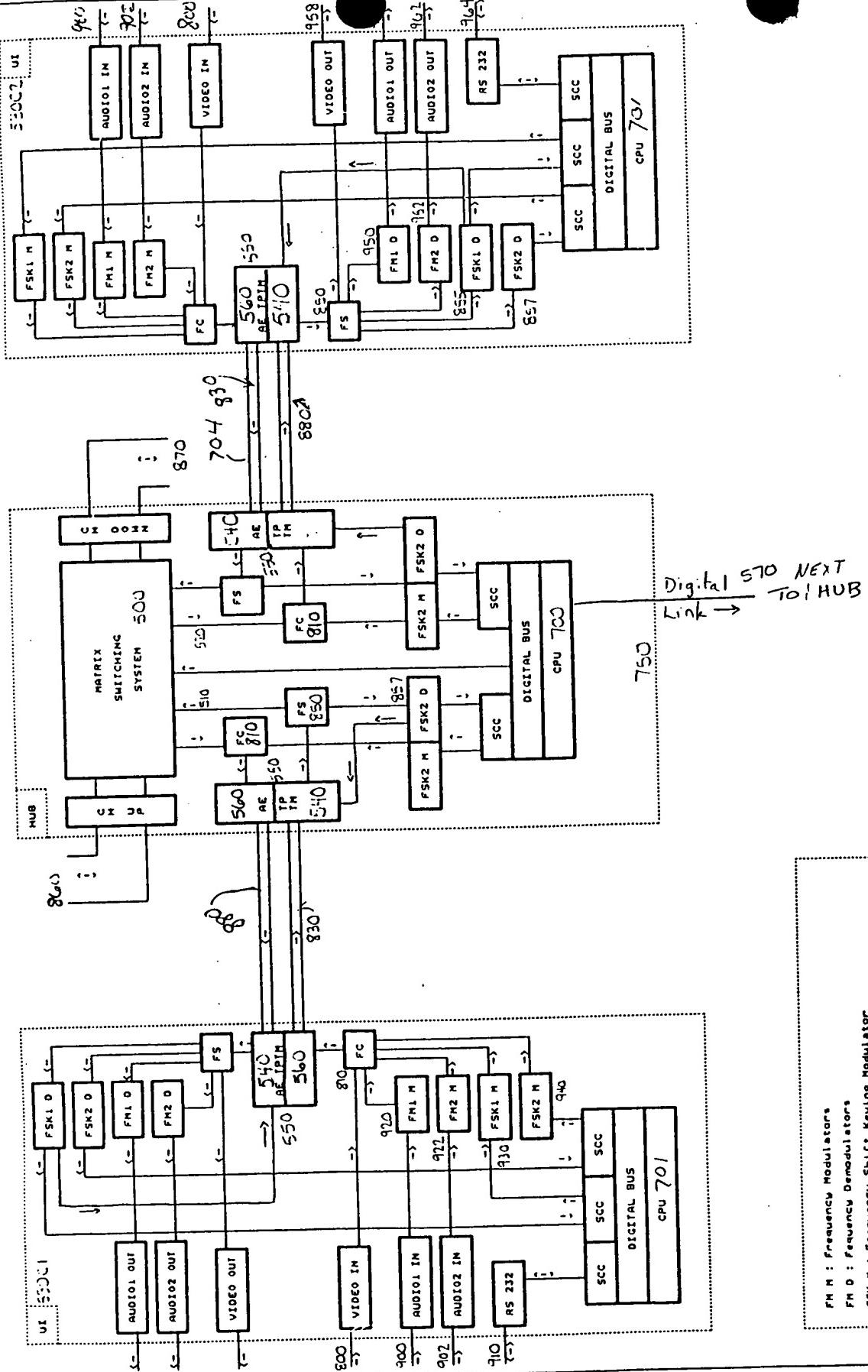


FIGURE 14

FHM : Frequency Modulators
FMD : Frequency Demodulators
FSK M : Frequency Shift Keying
FSK D : Frequency Shift Keying
FC : Frequency Coupler
FS : Frequency Separator
DIGITAL BUS : CPU Interface

SCC : Serial Communication Interface

AE TPII : Auto-Equalized Titled pair termin

Social Communication Port

RS 232 : Low Speed Serial Communication Page

CM LIB : HP Channel! Backbone Port

08-624 564

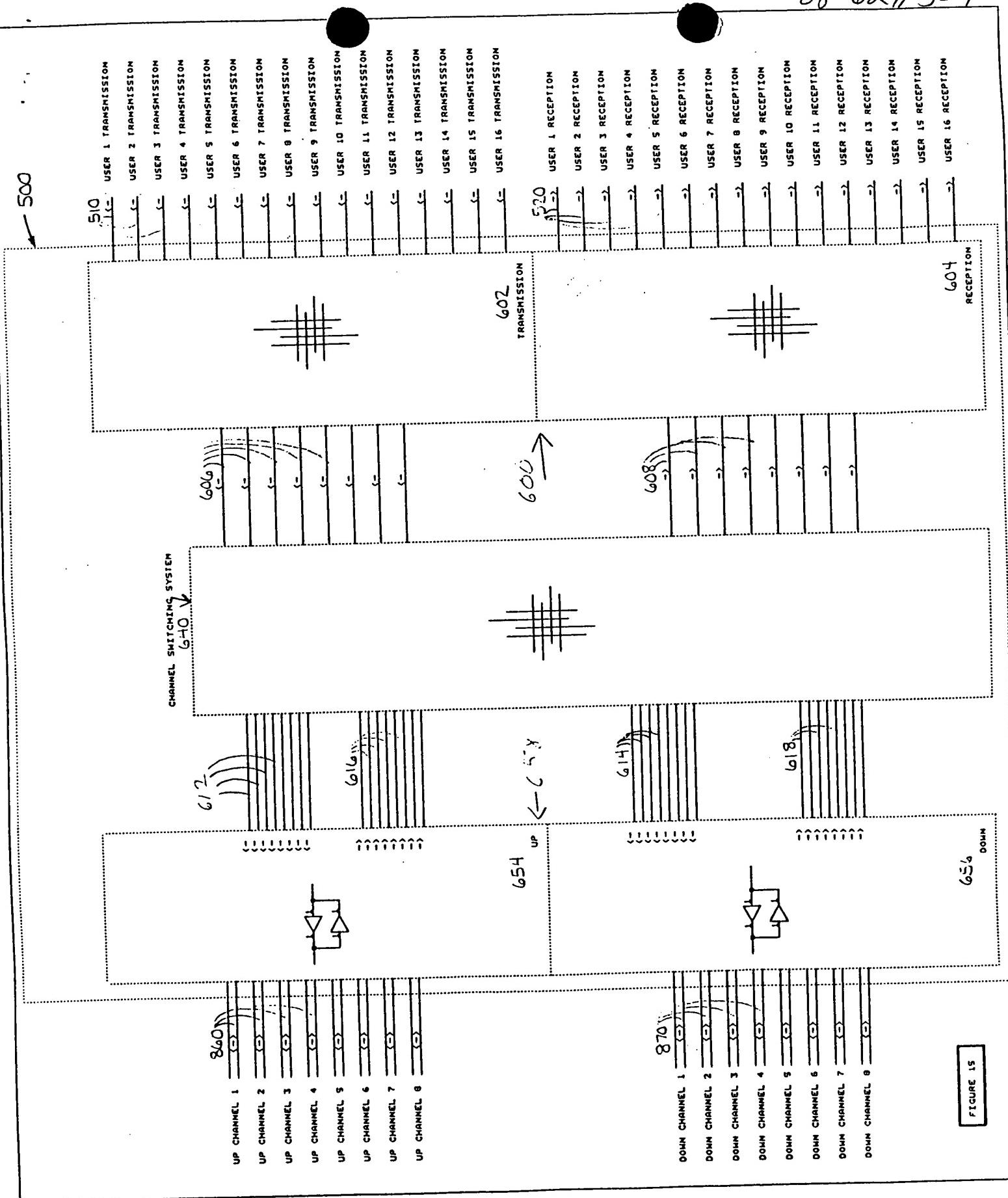
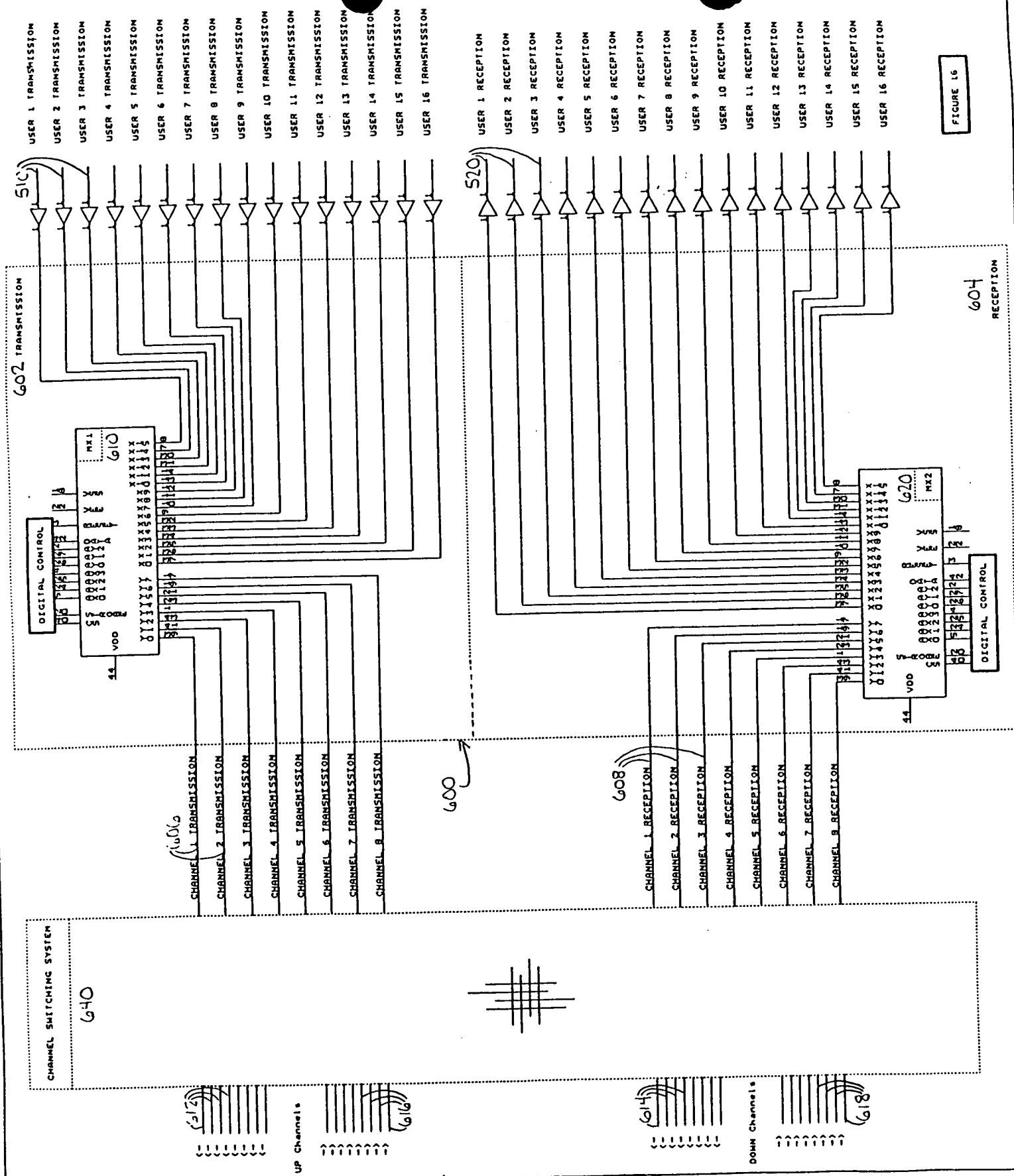


FIGURE 15

08-624,564



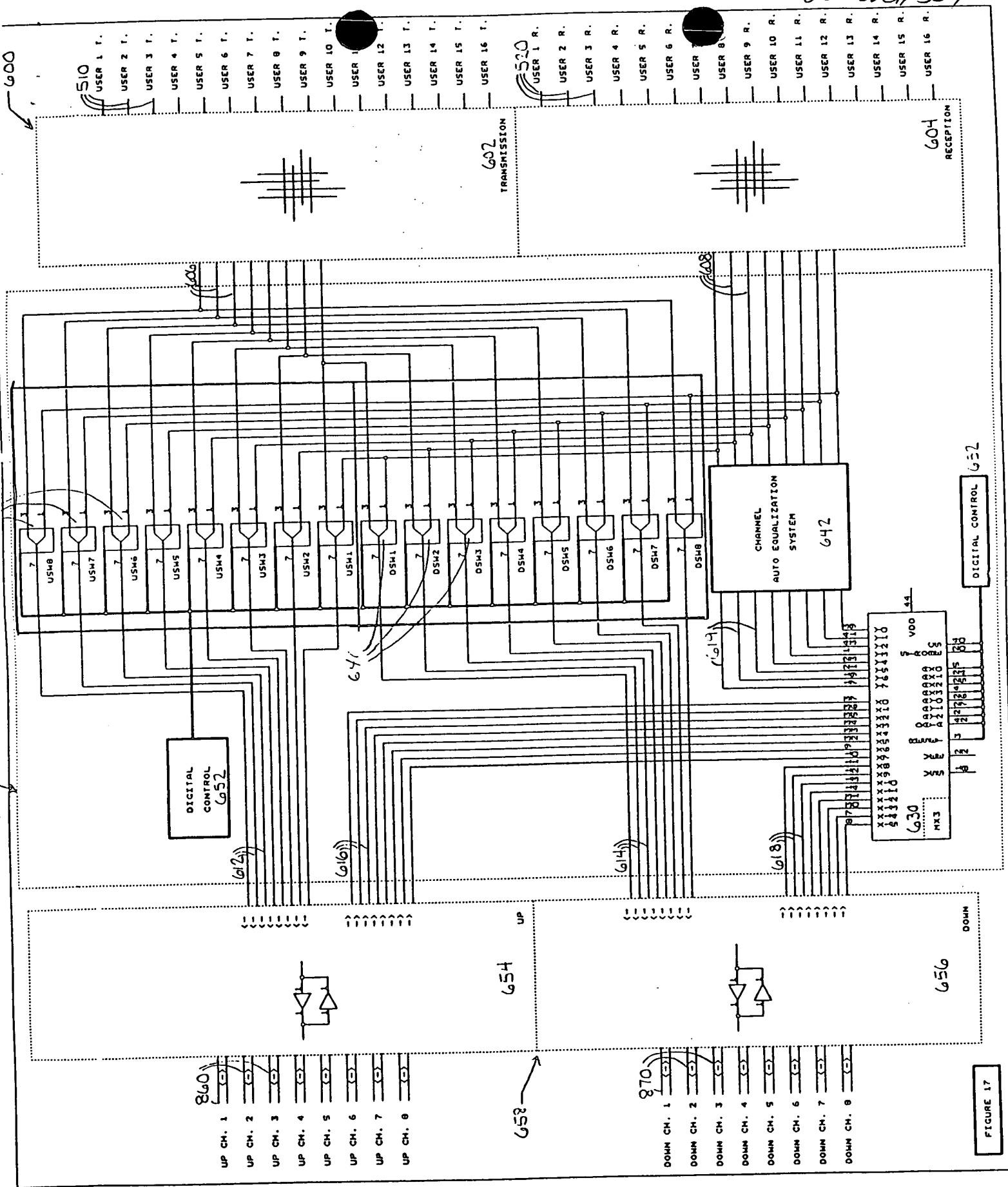
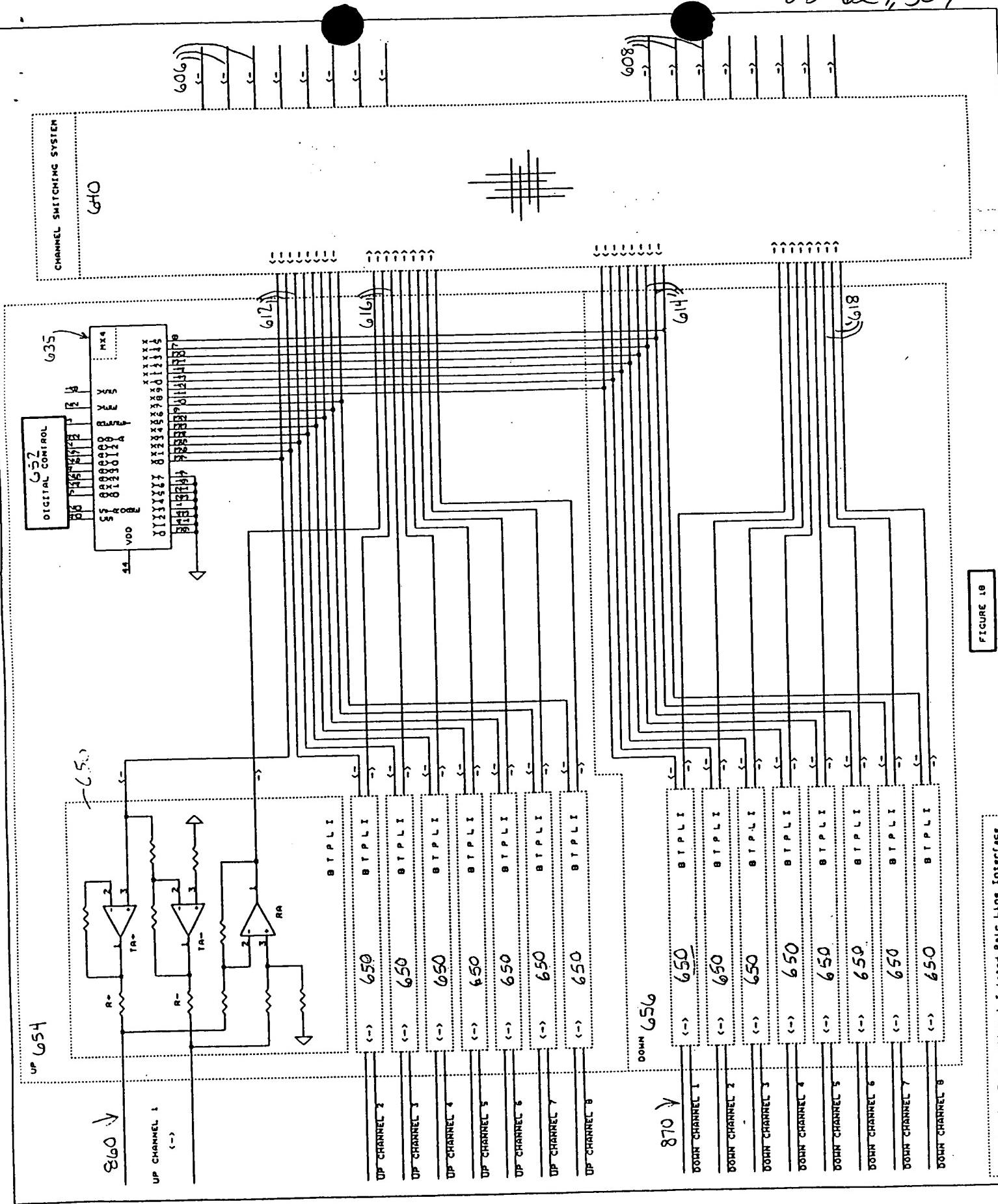
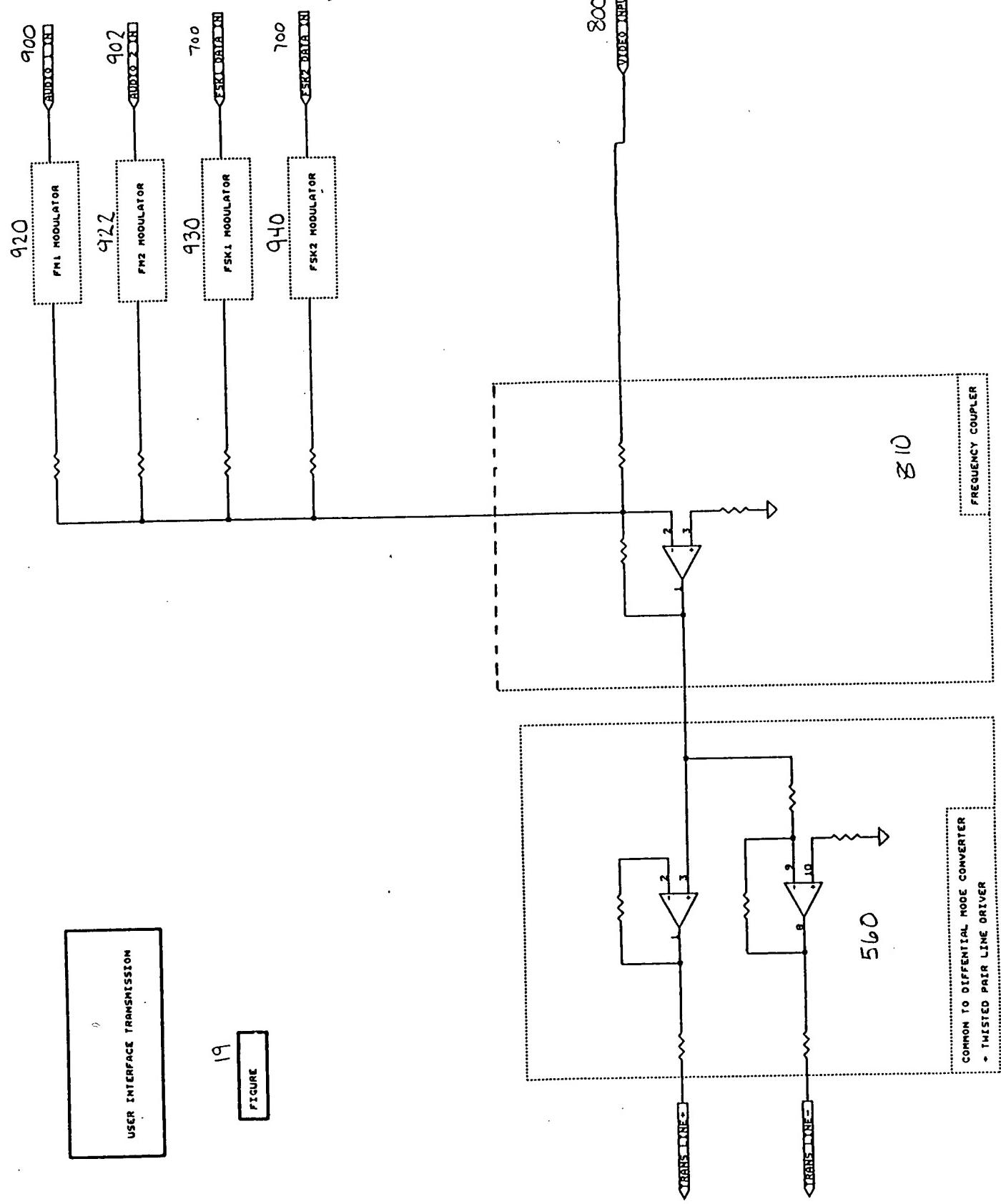


FIGURE 17

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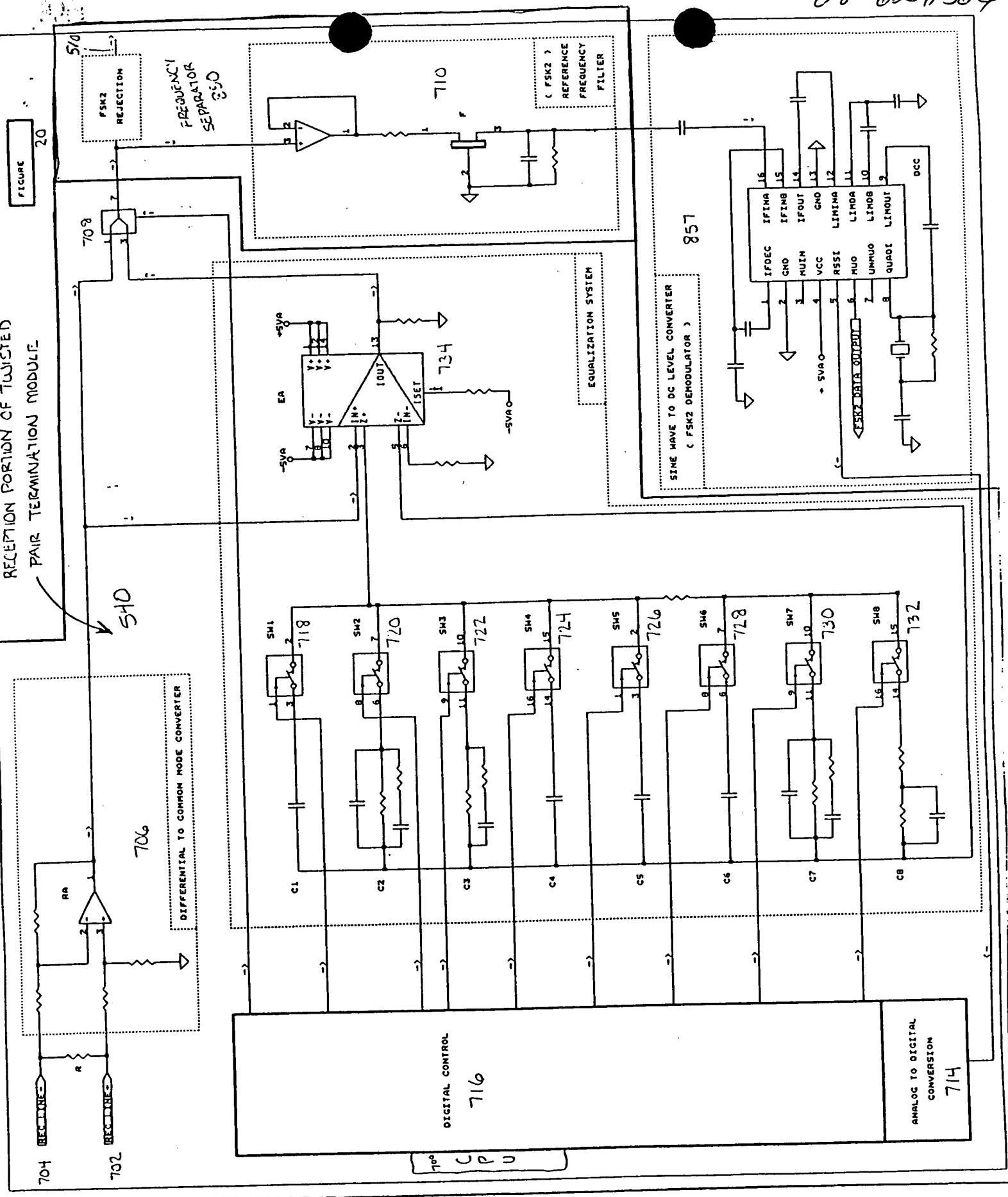
08-624524



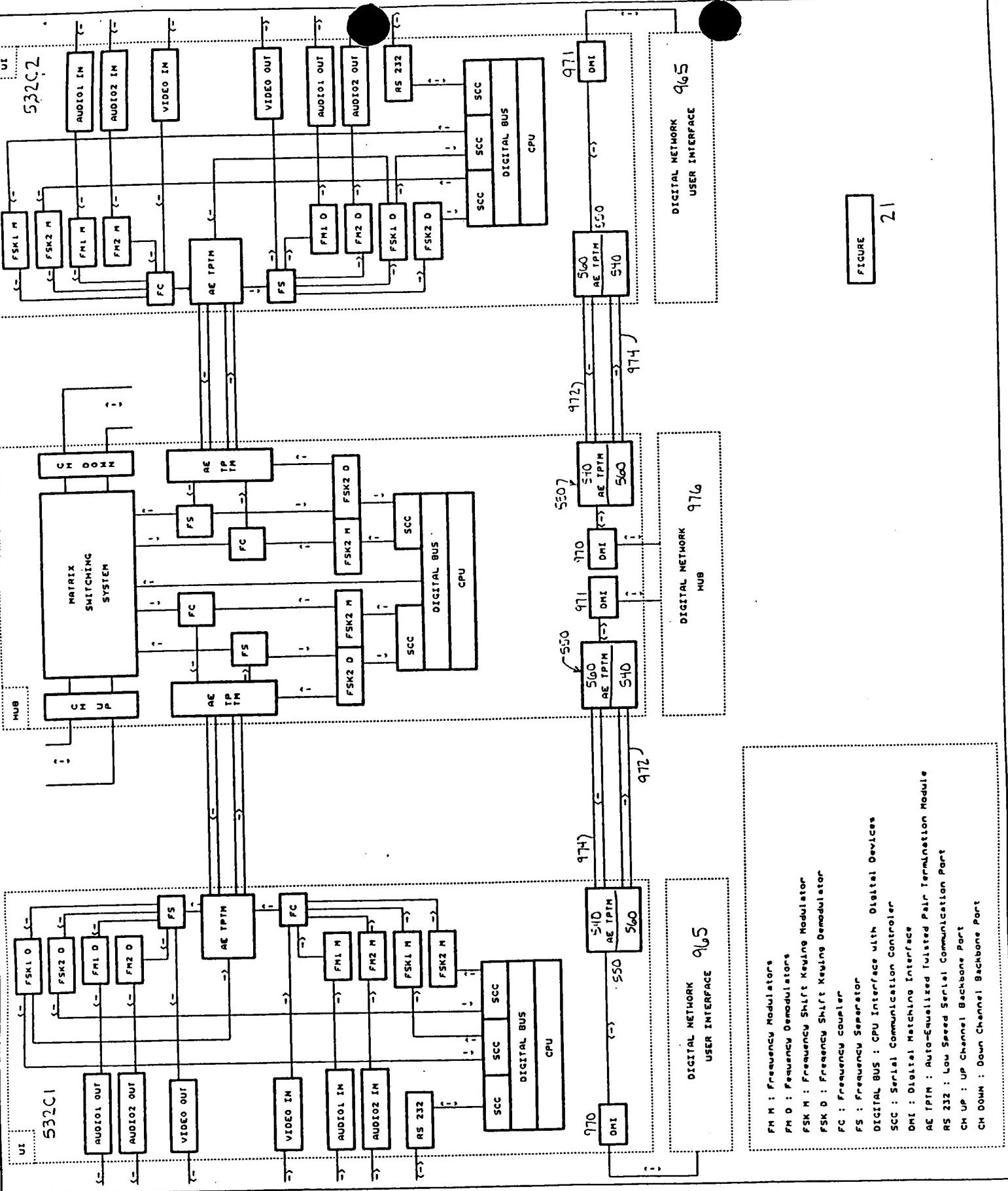
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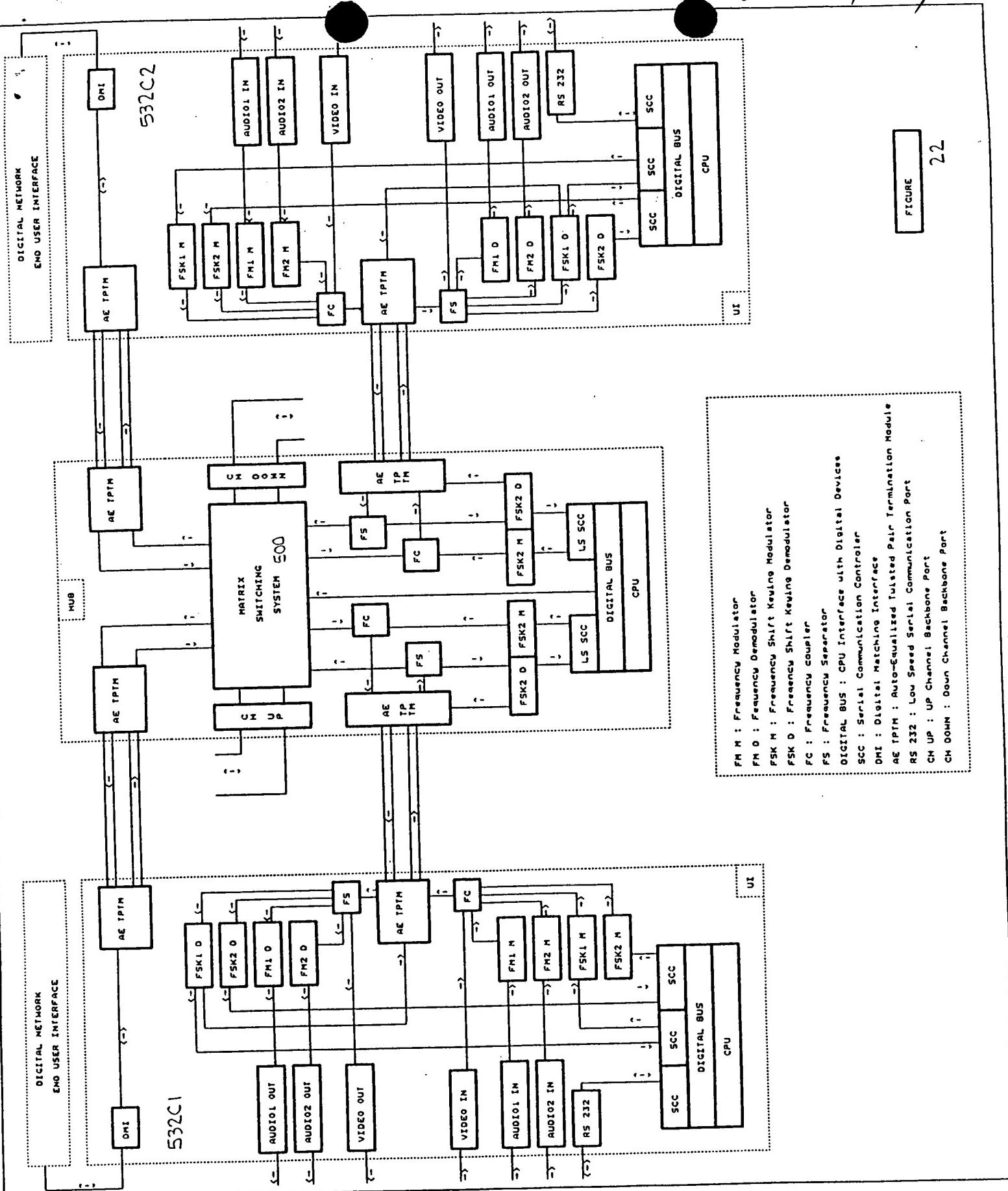
RECEPTION PORTION OF TWISTED
PAIR TERMINATION MODULE

FIGURE
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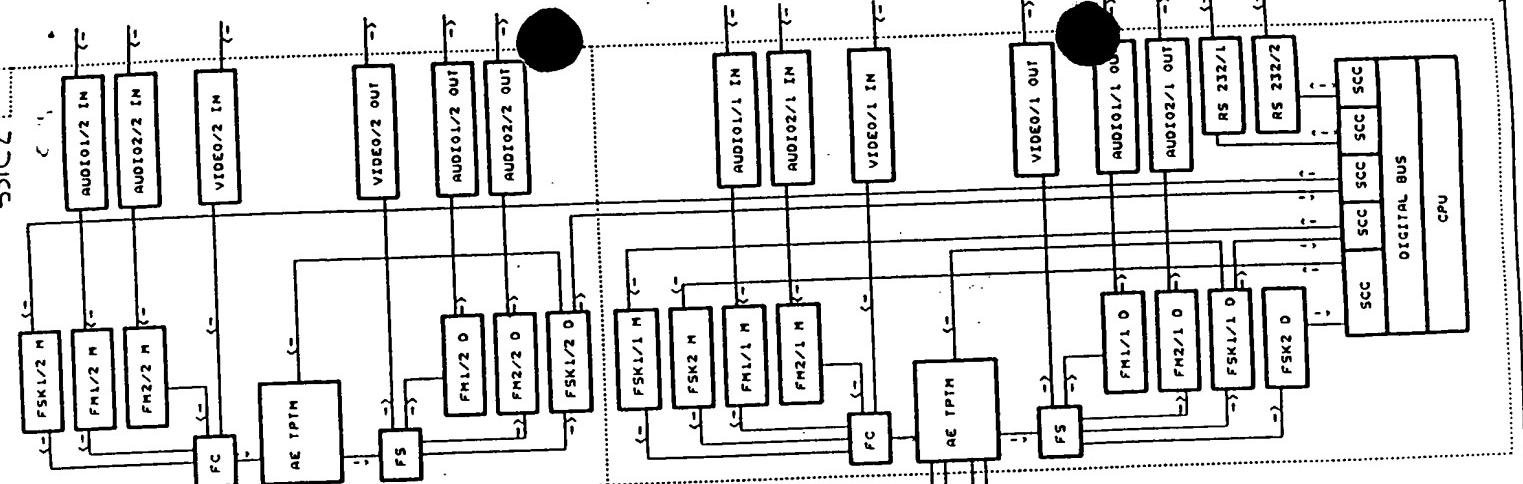


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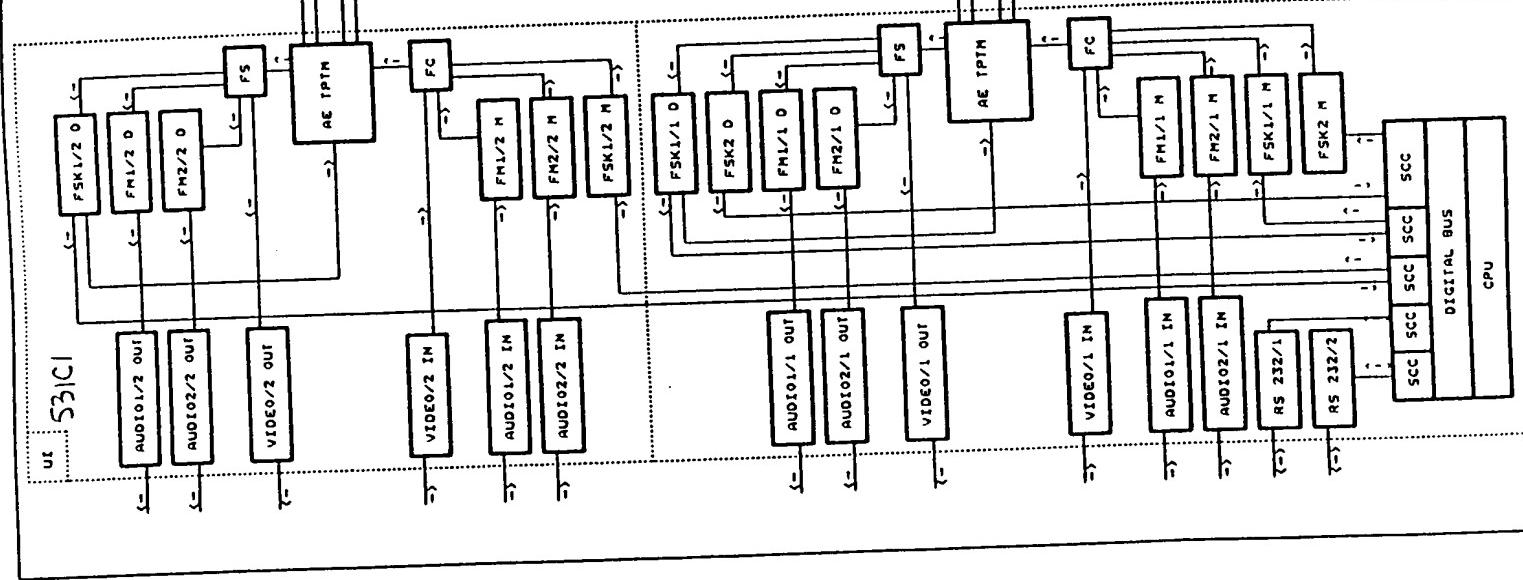


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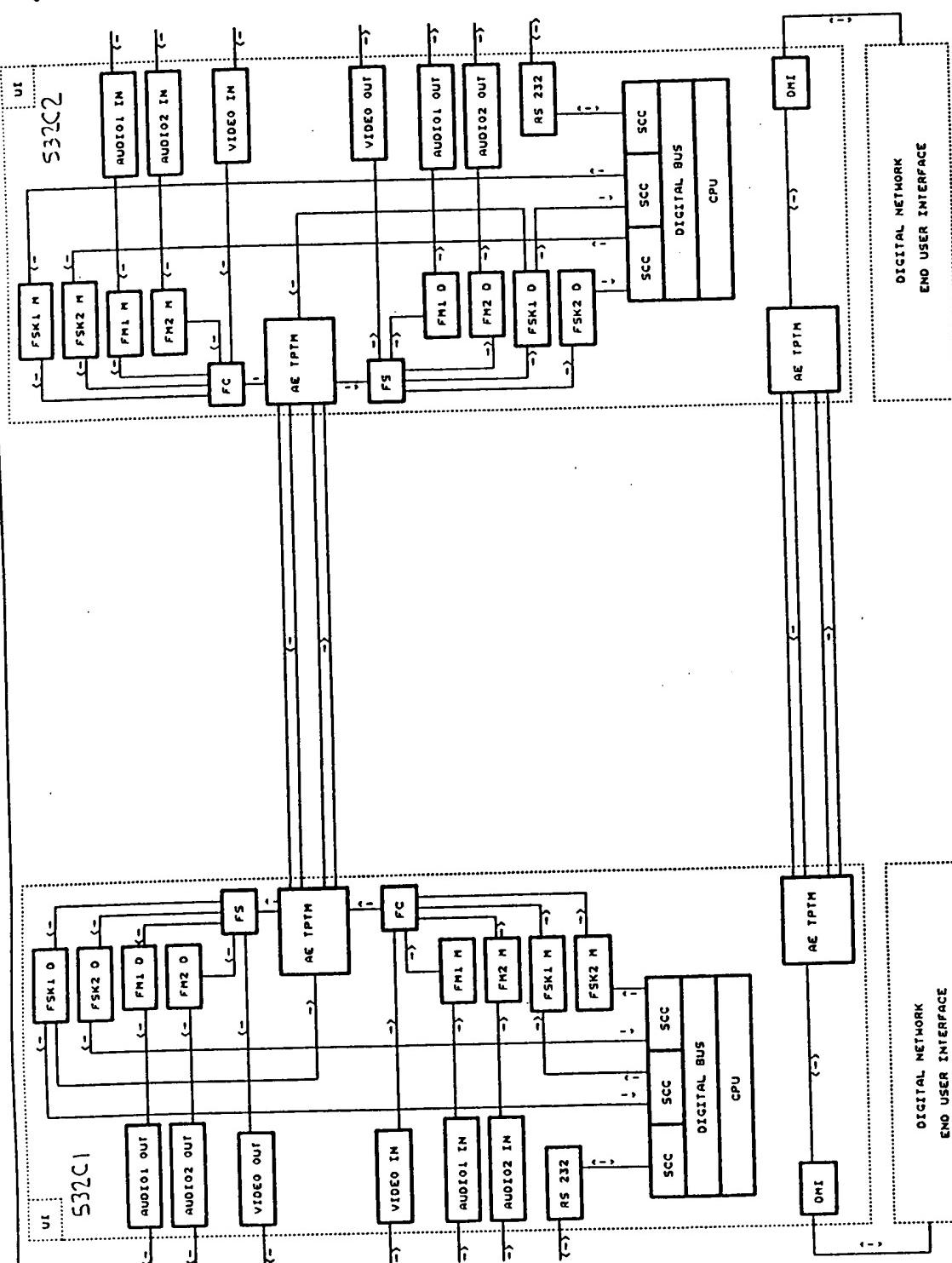
FIGURE

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Legend:
 FM N : Frequency Modulator
 FM D : Frequency Demodulator
 FSK M : Frequency Shift Keying Modulator
 FSK D : Frequency Shift Keying Demodulator
 FC : Frequency Coupler
 FS : Frequency Separator
 DIGITAL BUS : CPU Interface with Digital Devices.
 SCC : Serial Communication Controller
 AE TPM : Auto-Equalized Twisted Pair Termination Module
 RS 232 : Low Speed Serial Communication Port
 CH UP : Up Channel Backbone Port
 CH DOWN : Down Channel Backbone Port

08-624584

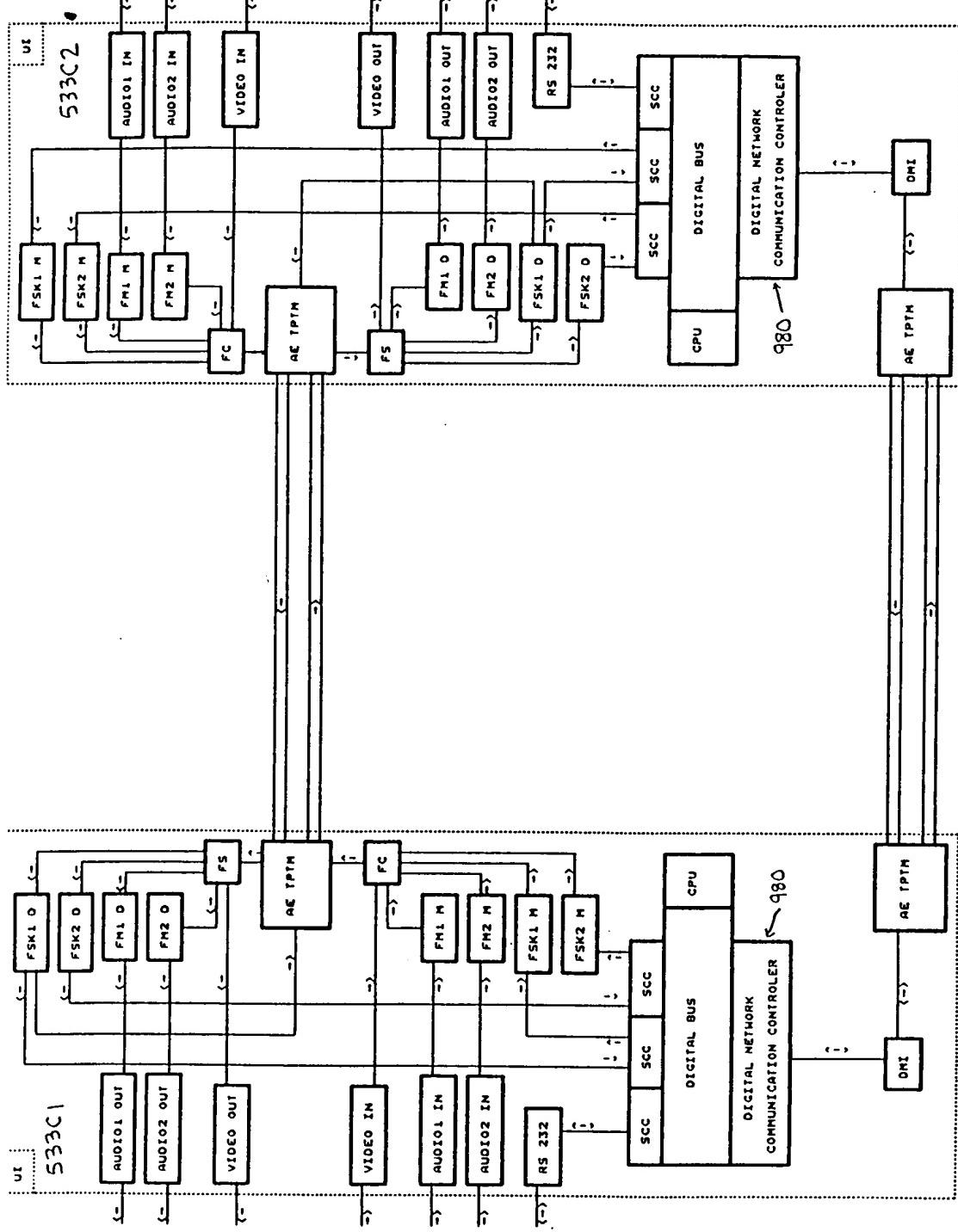


FIGURE

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- FM N : Frequency Modulators
- FM D : Frequency Demodulators
- DIGITAL BUS : CPU Interface with Digital Devices
- SCC : Serial Communication Controller
- FSK N : Frequency Shift Keying Modulator
- FSK D : Frequency Shift Keying Demodulator
- FC : Frequency coupler
- FS : Frequency Separator
- AE TPM : Auto-EQUALIZED Twisted Pair Termination Module
- RS 232 : Low Speed Serial Communication Port
- CH UP : Up Channel Backbone Port
- CH DOWN : Down Channel Backbone Port

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FM N : Frequency Modulators
 FM O : Frequency Demodulators
 FSK N : Frequency Shift Keying Modulator
 FSK O : Frequency Shift Keying Demodulator
 FC : Frequency Coupler
 FS : Frequency Separator
 DIGITAL BUS : CPU Interface with Digital Devices
 SCC : Serial Communication Controller
 DME : Digital Matching Interface
 AE TPM : Auto-Equalized Twisted Pair Termination Module
 RS 232 : Low Speed Serial Communication Port
 CH UP : Up Channel Backbone Part
 CH DOWN : Down Channel Backbone Part

FIGURE

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